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CLAIMS

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1. An intelligent control platform for routing, switching 5 and mixing audio/visual signals comprising:

(4) to a plurality of input ports configured to define

a plurality of input ports configured to define particular ones of a multiplicity of program sources;

a plurality of output ports;

a control processor;

a plurality of selectable operational mode selection controls; and

an adaptively configurable switch fabric, wherein the switch fabric defines particular ones of a multiplicity of operational signal interconnects in operative response to selection of a corresponding one of the selectable operational modes.

2. An intelligent control platform for routing, switching and mixing audio/visual signals, comprising:

a plurality of input ports, each input port configured to define particular ones of a multiplicity of program sources, each input port receiving program signals from a corresponding program source;

a plurality of output ports, each output port configured to define particular ones of a multiplicity of destinations, each output port providing program signals to each corresponding destination; and

an adaptively configurable program signal matrix circuit, coupled to receive program signals from each input port and to provide program signals to each output port, the particular input and output ports selected in accordance with a mode select circuit, the mode select circuit adaptively configuring the matrix to pass program signals along a default signal path devised to route the signal solely from the source

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to the destination while disabling any potential feedback signal paths.

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- 3. The intelligent control platform according to claim 2, further comprising internal fader controls, the default signal path configurable to direct program signals through the faders in a first operational mode, and to direct signals such that they bypass the faders in a second operational mode.
- 4. The intelligent control platform according to claim 2, further comprising means for coupling the default signal path through an external mixer, the default signal path configurable to direct the program signals through the mixer in a first operational mode, and to direct signals such that they bypass the mixer in a second operational mode.
- 5. The intelligent control platform according to claim 4, wherein the operational modes are selected from the group consisting of digitize, layback, edit and dub modes.
- 6. The intelligent control platform according to claim 2, wherein the program signal matrix circuit comprises a multichannel crosspoint matrix fabric, the crosspoint matrix fabric including switch energized crosspoint coupling nodes, the switches energized to define signal routing interconnects under software program control of a microprocessor.

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